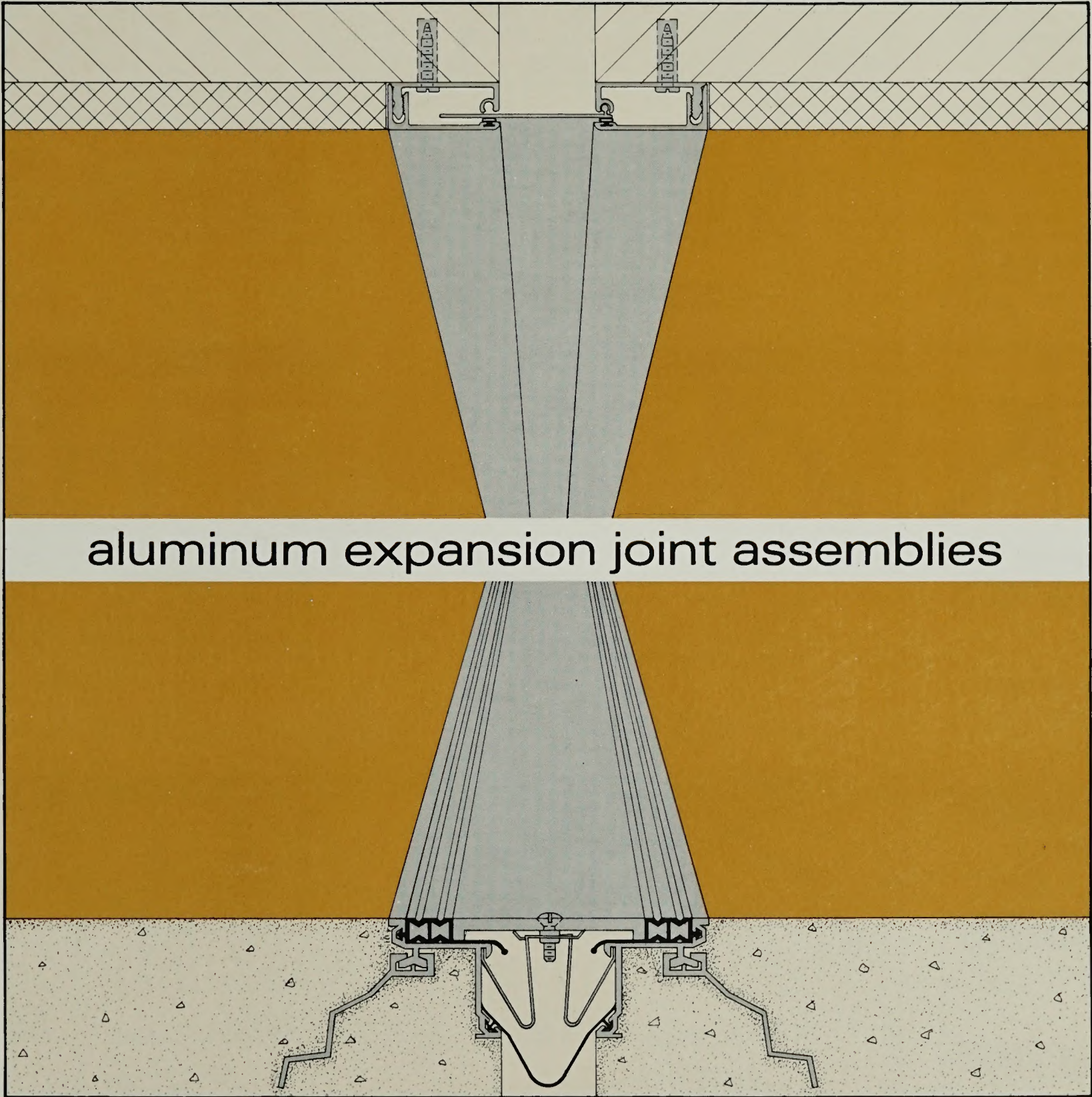




CORPORATION



aluminum expansion joint assemblies

MISCELLANEOUS MANUFACTURING CORPORATION

CATALOG NO. 13M

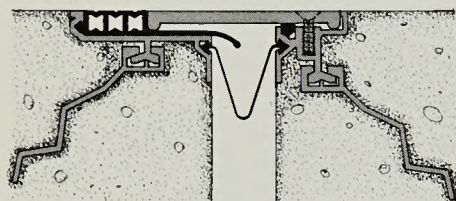
CONTENTS	PAGE
STANDARD EXPANSION JOINT ASSEMBLIES	2, 3, 6, 7
Four-Way EXPANSION JOINT ASSEMBLIES	4, 5, 6, 7, 8
GYMNASIUM EXPANSION JOINT ASSEMBLIES	8
ROOF EXPANSION JOINT ASSEMBLIES	9
TRENCH FRAMES, LINERS & COVERS	10, 11
MANHOLE COVERS & ACCESS PANELS	11
GRATE FRAMES, MAT RECESS FRAMES, OTHER PRODUCTS	12



floor assemblies

1" expansion

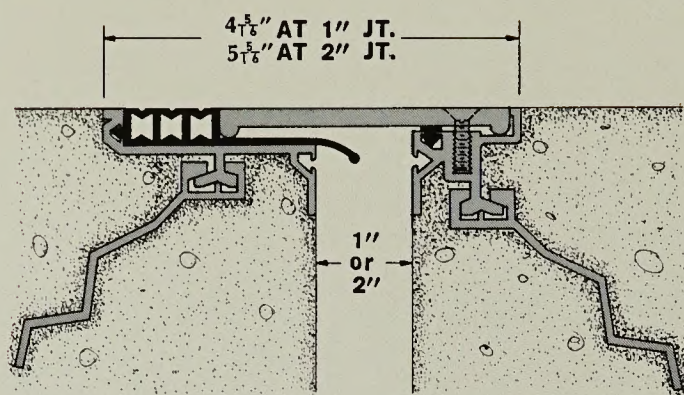
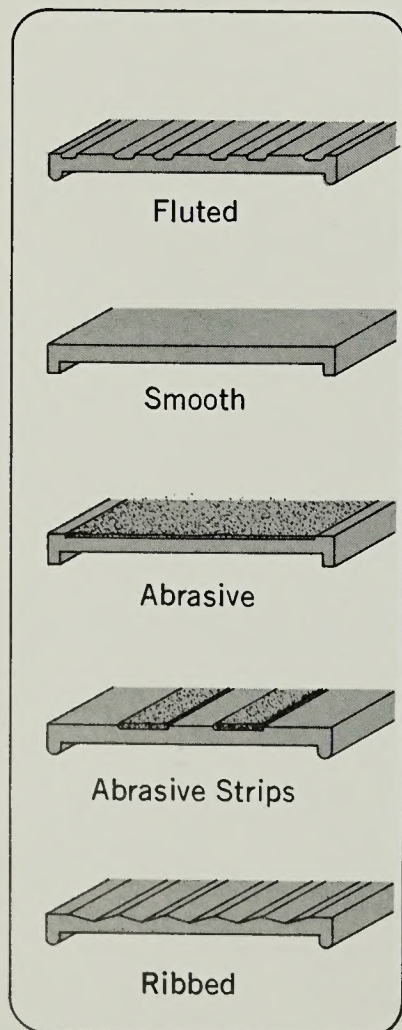
The expansion joint assemblies shown in this catalog are all custom designed to provide the ultimate in appearance and quality. The aluminum components are of rugged 6063-T5 alloy. The filler strips are aluminum color abrasive resistant vinyl (polyvinyl-chloride) designed to lock into the aluminum extrusion. Rubber cork filler strips are also available. Anchors and fasteners are spaced 24" o.c. Components in contact with fresh concrete are protected with factory coat of zinc chromate. All assemblies are carried 20'-0" stock lengths or can be provided cut to exact length required.



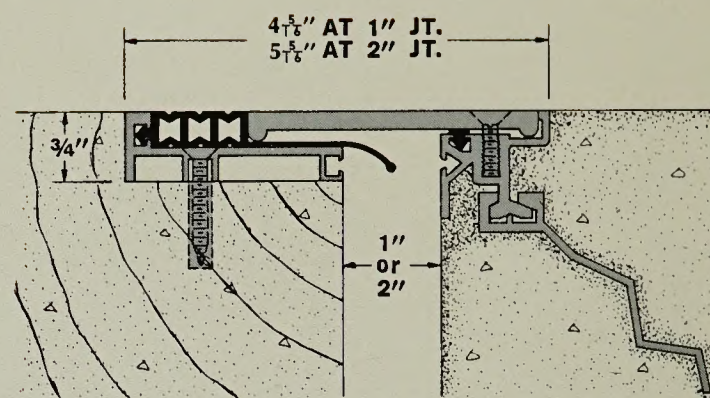
WATERSTOPS

Available for all Floor Assemblies
Specify by adding "WS" after style

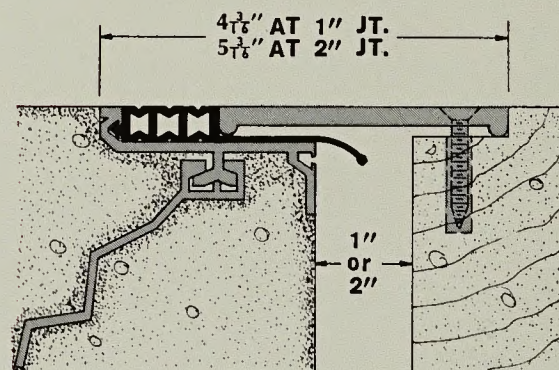
PLATES AVAILABLE



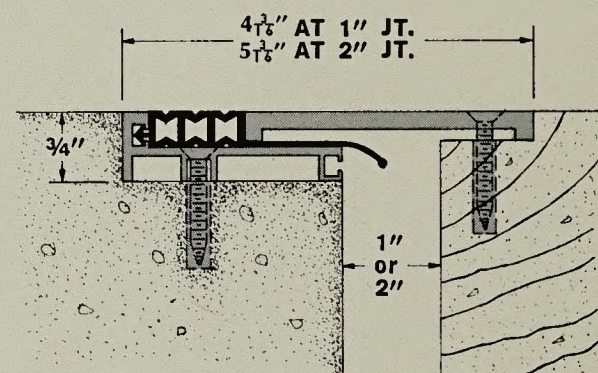
- | | |
|-------------------------|---------------|
| 1" JT. | 2" JT. |
| X-A1V (Fluted Plate) | X-A2V |
| X-B1V (Smooth Plate) | X-B2V |
| X-C1V (Abrasive Plate) | X-C2V |
| X-D1V (Abrasive Strips) | X-D2V |
| X-P1V (Ribbed Plate) | |



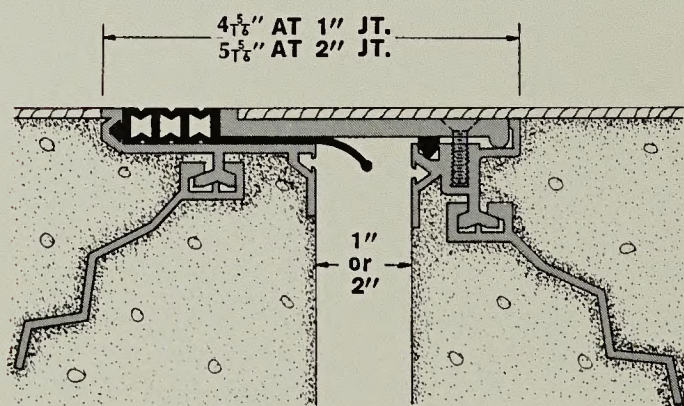
- | | |
|--------------------------|---------------|
| 1" JT. | 2" JT. |
| X-A1MV (Fluted Plate) | X-A2MV |
| X-B1MV (Smooth Plate) | X-B2MV |
| X-C1MV (Abrasive Plate) | X-C2MV |
| X-D1MV (Abrasive Strips) | X-D2MV |
| X-P1MV (Ribbed Plate) | |



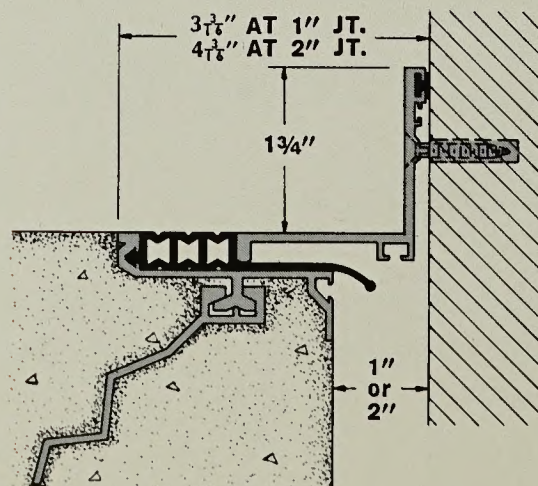
- | | |
|-------------------------|---------------|
| 1" JT. | 2" JT. |
| X-F1V (Fluted Plate) | X-F2V |
| X-G1V (Smooth Plate) | X-G2V |
| X-H1V (Abrasive Plate) | X-H2V |
| X-J1V (Abrasive Strips) | X-J2V |
| X-Q1V (Ribbed Plate) | |



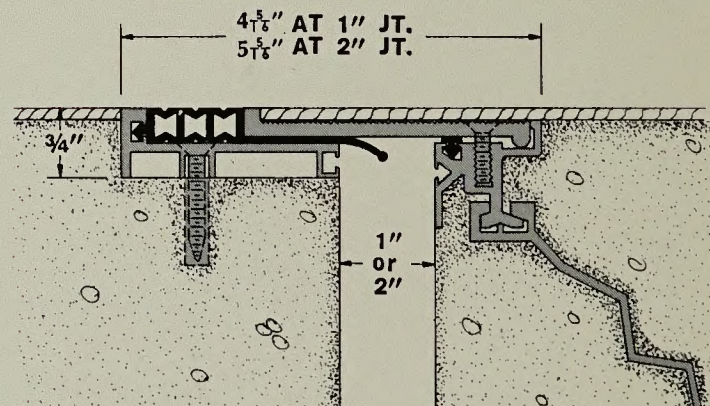
- | | |
|--------------------------|---------------|
| 1" JT. | 2" JT. |
| X-F1MV (Fluted Plate) | X-F2MV |
| X-G1MV (Smooth Plate) | X-G2MV |
| X-H1MV (Abrasive Plate) | X-H2MV |
| X-J1MV (Abrasive Strips) | X-J2MV |
| X-Q1MV (Ribbed Plate) | |



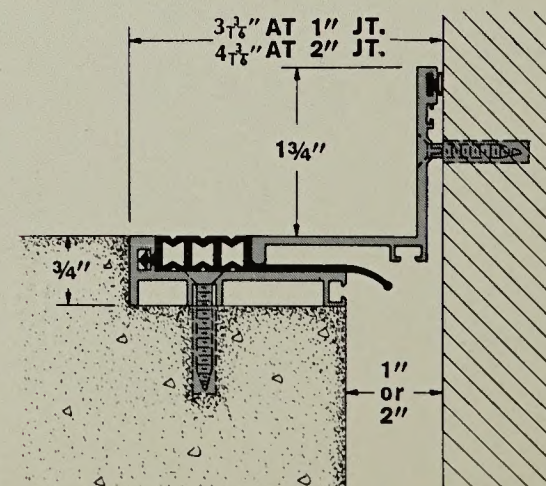
- | | |
|---------------------|---------------|
| 1" JT. | 2" JT. |
| X-T1V (1/8" Recess) | X-T2V |



- | | |
|---------------|---------------|
| 1" JT. | 2" JT. |
| X-E1V | X-E2V |

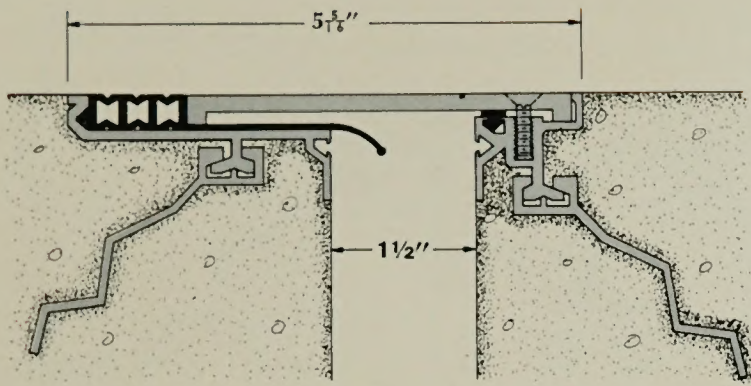


- | | |
|----------------------|---------------|
| 1" JT. | 2" JT. |
| X-T1MV (1/8" Recess) | X-T2MV |

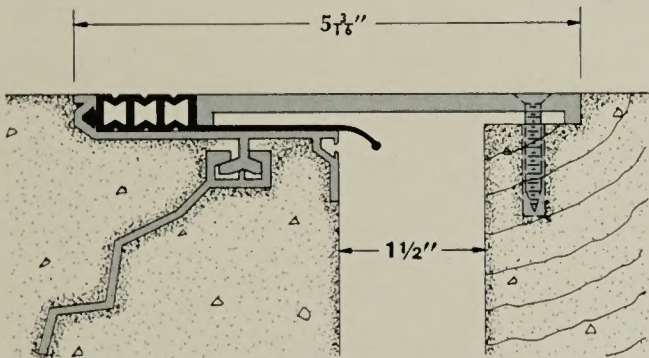


- | | |
|---------------|---------------|
| 1" JT. | 2" JT. |
| X-E1MV | X-E2MV |

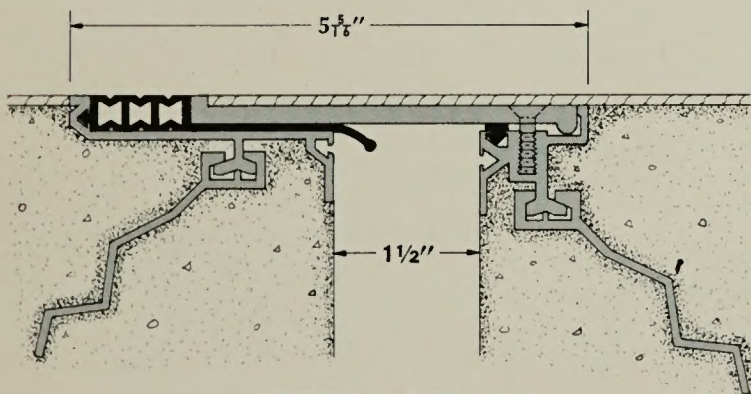
1½" expansion



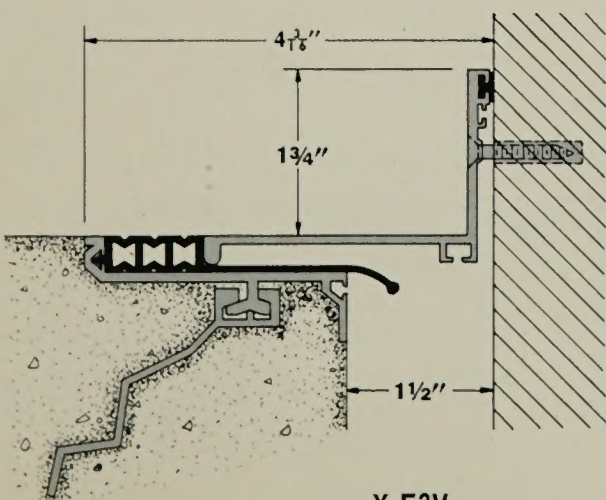
X-A3V (Fluted Plate)
X-B3V (Smooth Plate)
X-C3V (Abrasive Plate)
X-D3V (Abrasive Strips)



X-F3V (Fluted Plate)
X-G3V (Smooth Plate)
X-H3V (Abrasive Plate)
X-J3V (Abrasive Strips)

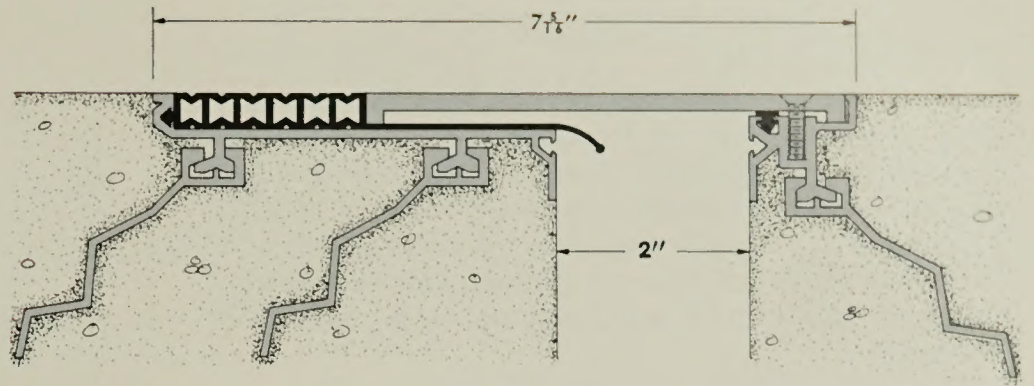


X-T3V (⅛" Recess)

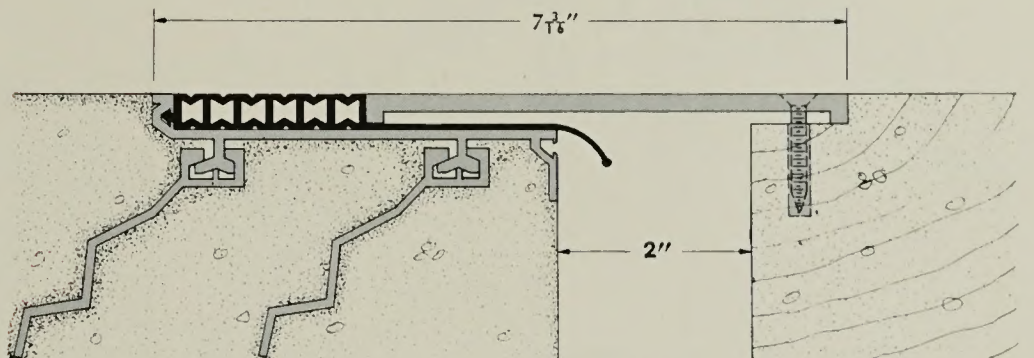


X-E3V

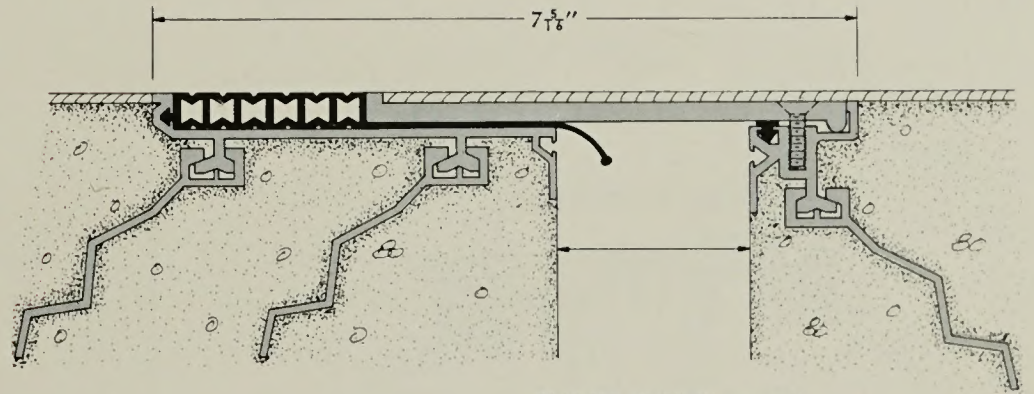
2" expansion



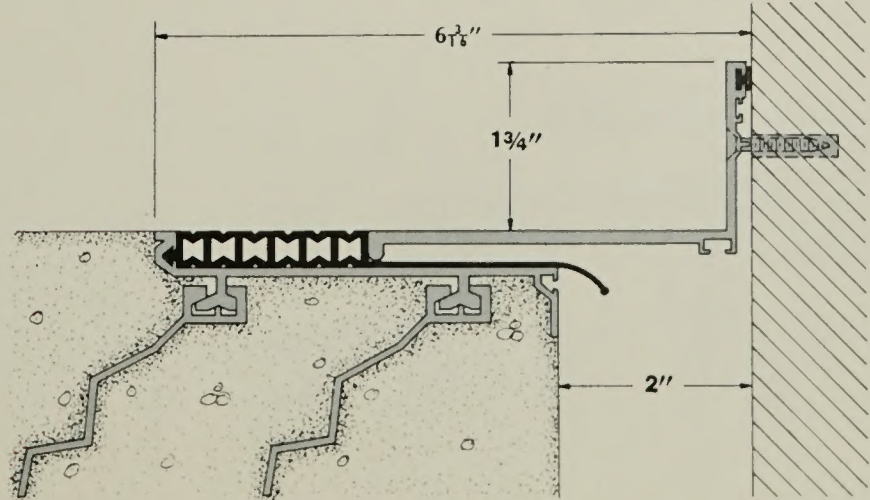
X-B4V (Smooth Plate)
X-C4V (Abrasive Plate)



X-G4V (Smooth Plate)
X-H4V (Abrasive Plate)



X-T4V (⅛" Recess)



X-E4V



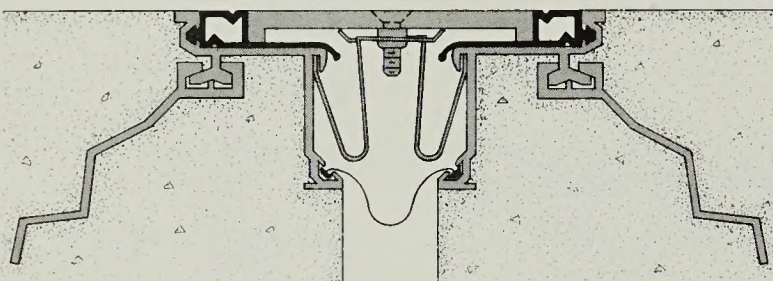
floor assemblies **Four-Way** movement

1" and 1½" expansion

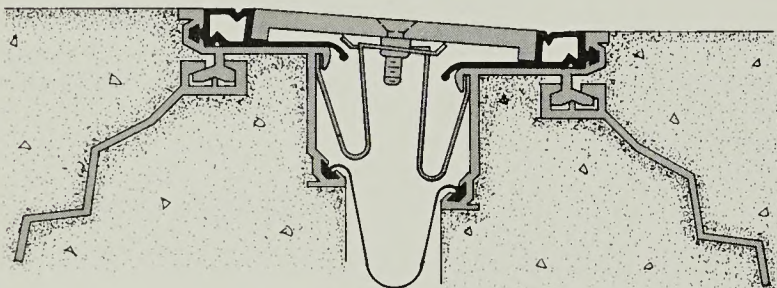
Floor assemblies illustrated provide **Four-Way** movement. The assemblies are designed for easy installation and neat appearance. The stainless steel spring clips are designed to keep cover plate centered in all positions and eliminate projections at edge of plate. Vinyl filler strips are locked into the aluminum extrusion and will expand and compress with building movement.

Companion wall and ceiling assemblies are available as shown on pages 6 and 7.

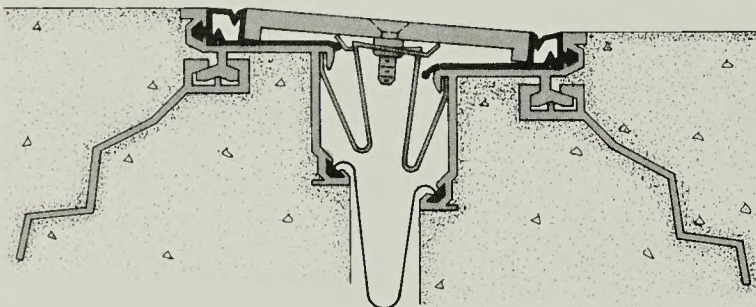
NORMAL



UP/DOWN



IN/UP/DOWN



OUT/UP/DOWN

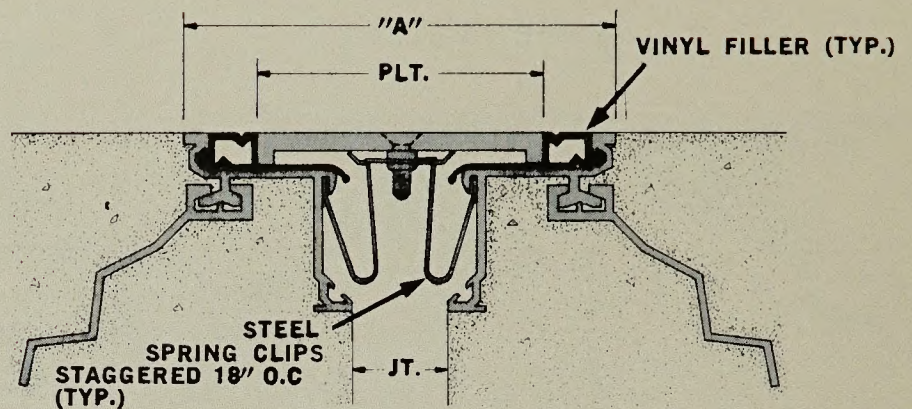
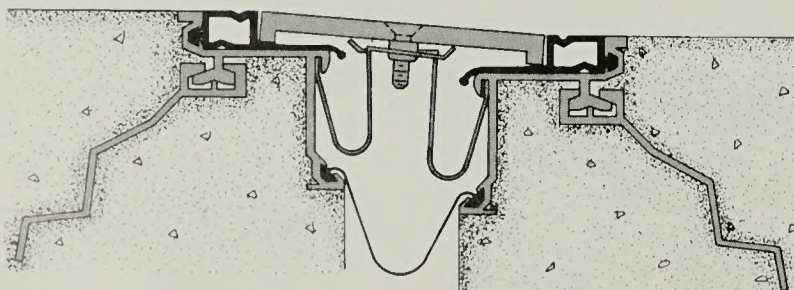
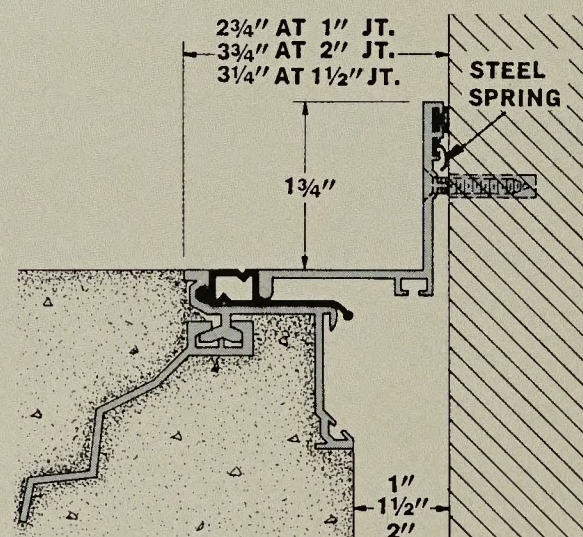
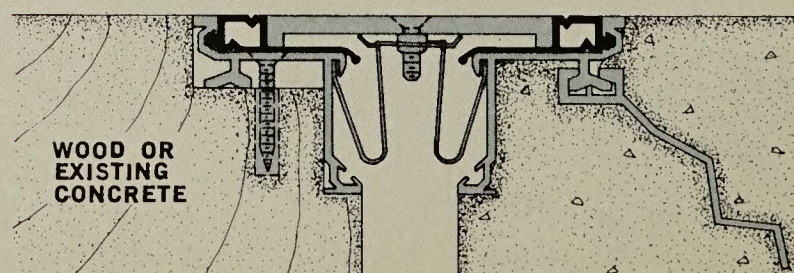


plate surface	joint	plt.dim.	"A" dim	style
fluted	1"	3"	4½"	AX-A1
	2"	4"	5½"	AX-A2
	1½"	3"	5"	AX-A3
smooth	1"	3"	4½"	AX-B1
	2"	4"	5½"	AX-B2
	1½"	3"	5"	AX-B3
abrasive surface	1"	3"	4½"	AX-C1
	2"	4"	5½"	AX-C2
	1½"	3"	5"	AX-C3
abrasive strips	1"	3"	4½"	AX-D1
	2"	4"	5½"	AX-D2
	1½"	3"	5"	AX-D3
⅛" recess for tile	1"	3"	4½"	AX-T1
	2"	4"	5½"	AX-T2
	1½"	3"	5"	AX-T3
ribbed	1"	3"	4½"	AX-P1
	1½"	3"	5"	AX-P3



AX-E1 (1" JT.)
AX-E2 (2" JT.)
AX-E3 (1½" JT.)

WOOD/CONCRETE INSTALLATION



Specify by adding WC after style
For example AX B1(WC)
Available for all floor assemblies on this page
and left column on page 5

2" expansion

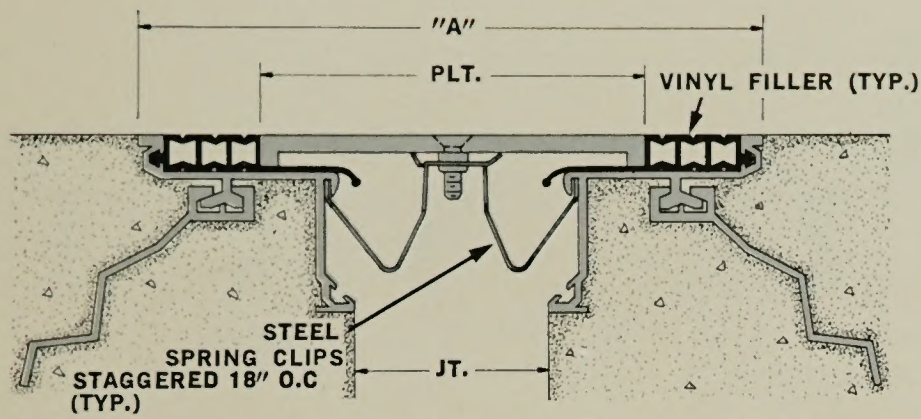
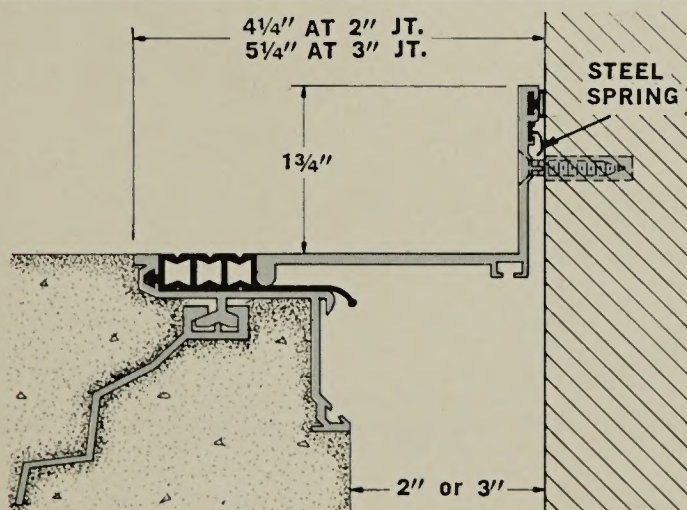
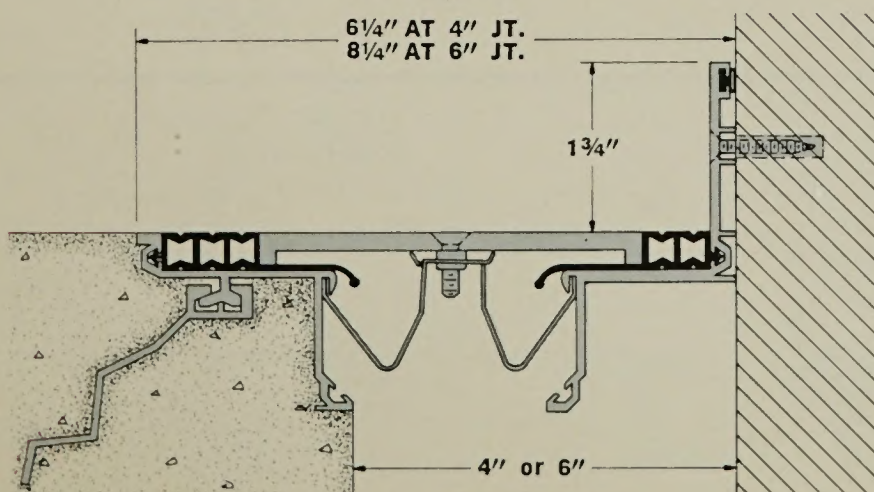


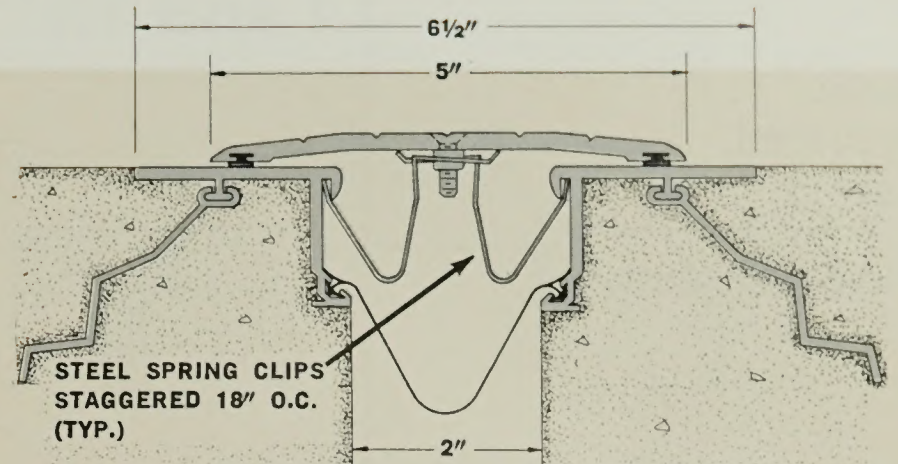
plate surface	joint	plt. dim.	"A" dim.	style
fluted	2"	4"	6½"	AX-A4
smooth	2"	4"	6½"	AX-B4
	3"	5"	7½"	AX-B6
	4"	6"	8½"	AX-B8
	6"	8"	10½"	AX-B12
abrasive surface	2"	4"	6½"	AX-C4
	3"	5"	7½"	AX-C6
	4"	6"	8½"	AX-C8
	6"	8"	10½"	AX-C12
abrasive strips	2"	4"	6½"	AX-D4
	3"	5"	7½"	AX-D6
	4"	6"	8½"	AX-D8
⅛" recess for tile	2"	4"	6½"	AX-T4
	3"	5"	7½"	AX-T6
	4"	6"	8½"	AX-T8
	6"	8"	10½"	AX-T12



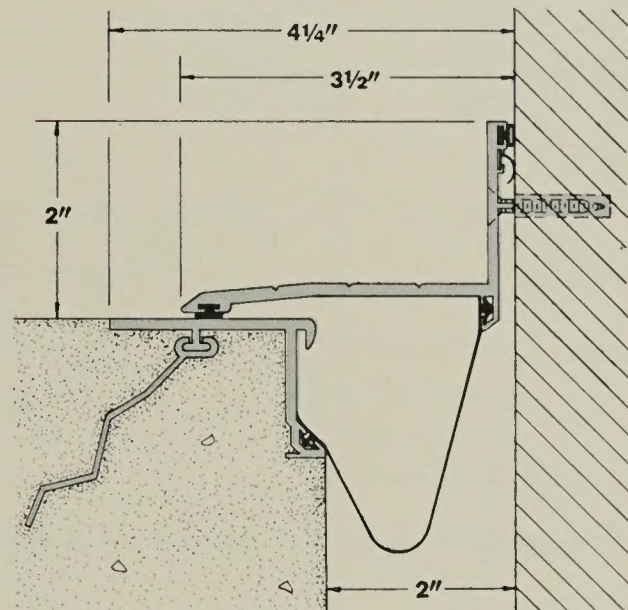
AX-E4 (2" JT.)
AX-E6 (3" JT.)



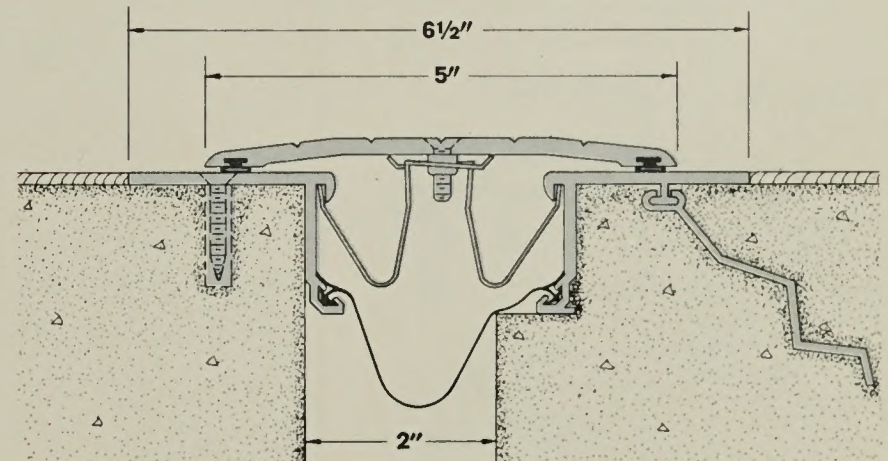
AX-E8 (4" JT.)
AX-E12 (6" JT.)



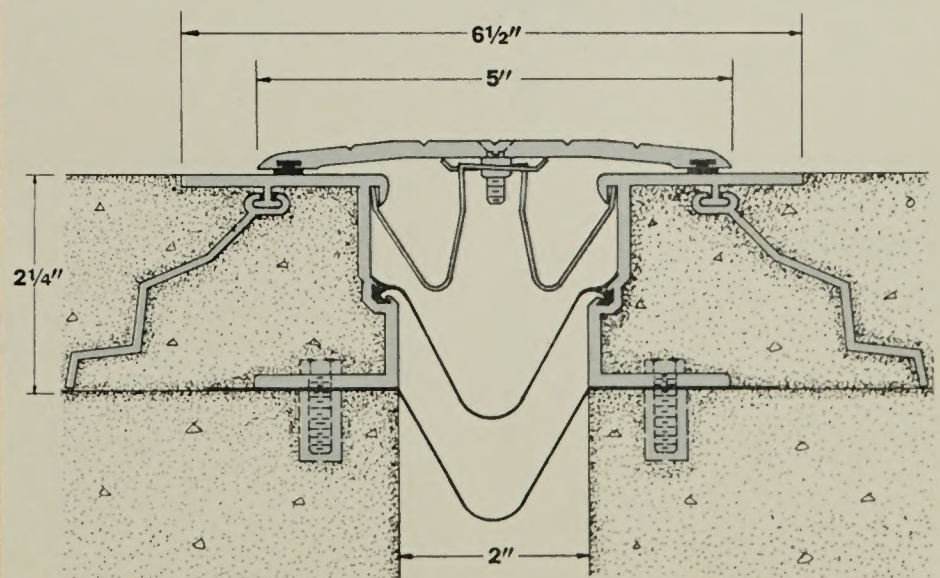
AX-G4 shown with standard ⅜" thick cover
AX-G4HD with ⅝" thick heavy duty cover



AX-GE4



AX-G4M shown with standard ⅜" thick cover
AX-G4MHD with ⅝" thick heavy duty cover



AX-J4 shown with standard ⅜" thick cover
AX-J4HD with ⅝" thick heavy duty cover



wall and ceiling assemblies

1 and 1½" expansion

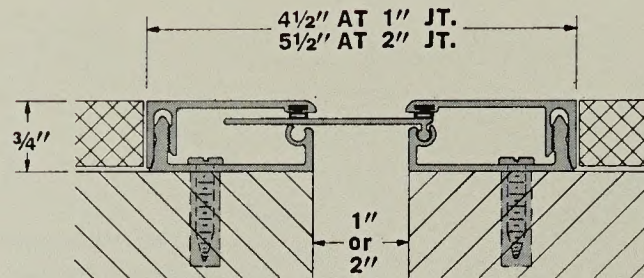
flush mounted covers

Four-Way Movement

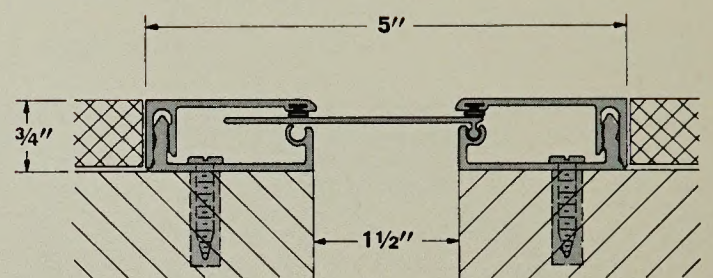
FINISHES

All wall & ceiling covers illustrated on Pages 6 & 7 are available with the following finishes:

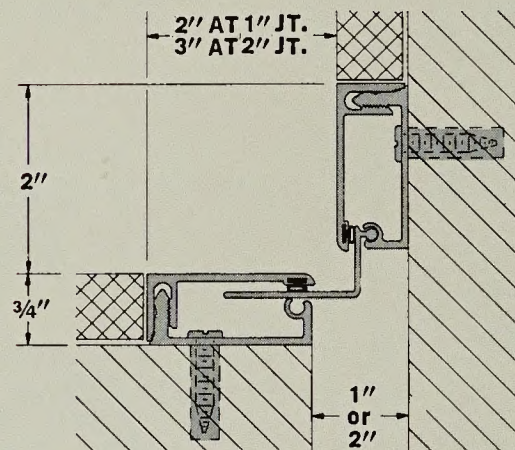
1. 204-R1 Alumilite—
Standard for all assemblies
2. Color Anodizing—
Kalcrol and Duranodic
3. Baked Enamel—
Write for color chart



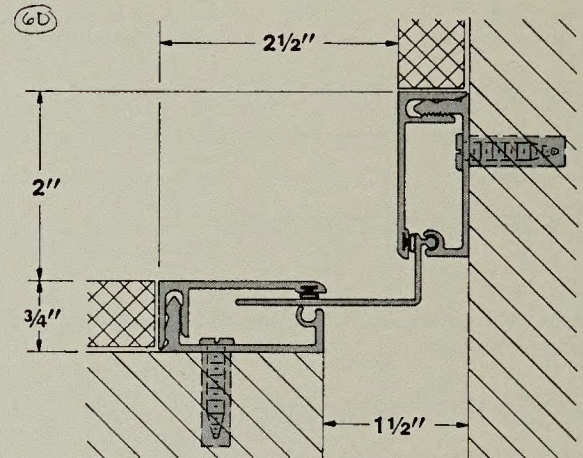
FX-K1S (1" JT.)
FX-K2S (2" JT.)



FX-K3S



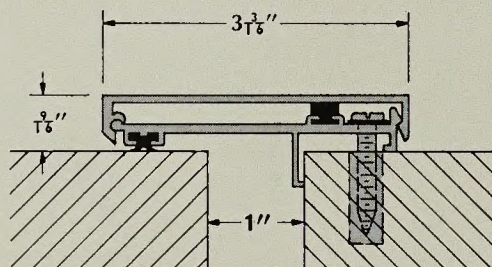
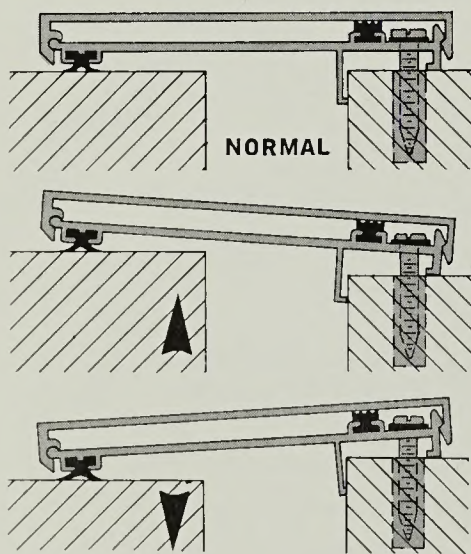
FX-L1S (1" JT.)
FX-L2S (2" JT.)



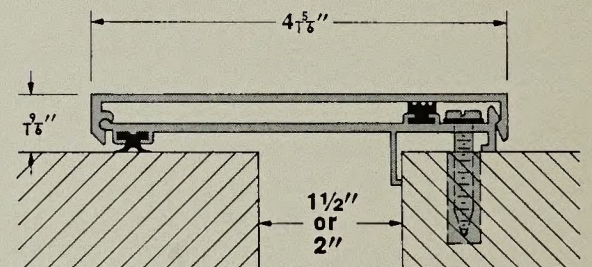
FX-L3S

surface mounted covers

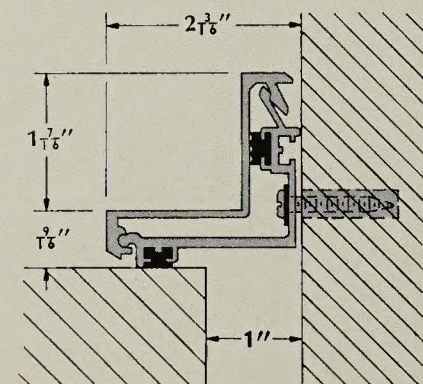
Four-Way Movement



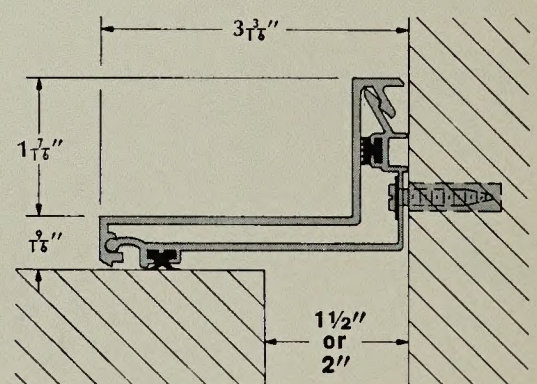
X-K1SM



X-K2SM

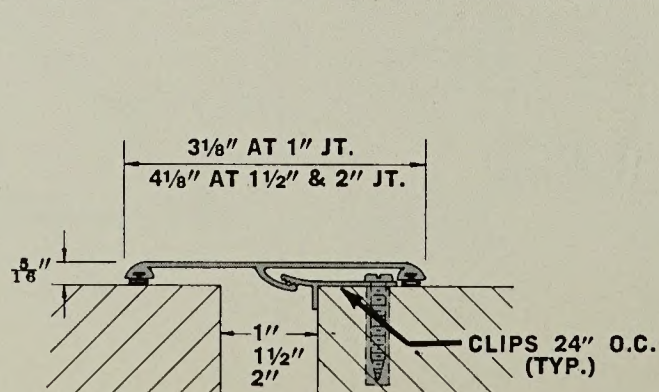


X-L1SM

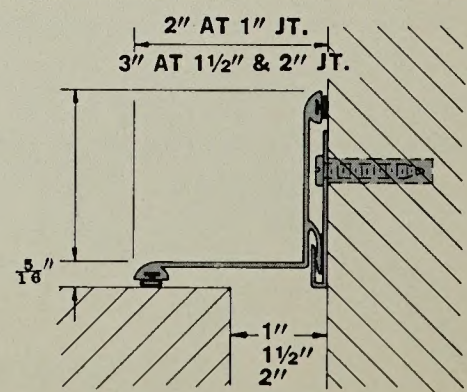


X-L2SM

surface mounted covers

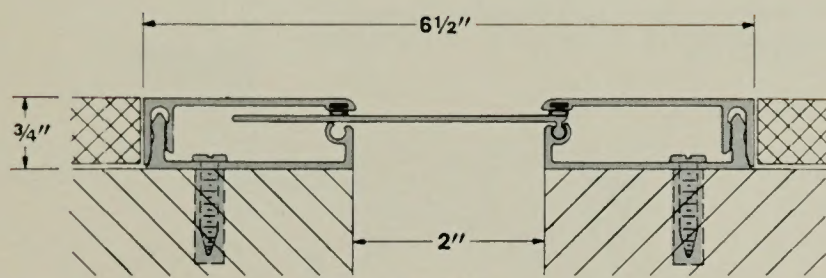


EX-K1 (1" JT.)
EX-K2 (1 1/2" & 2" JT.)

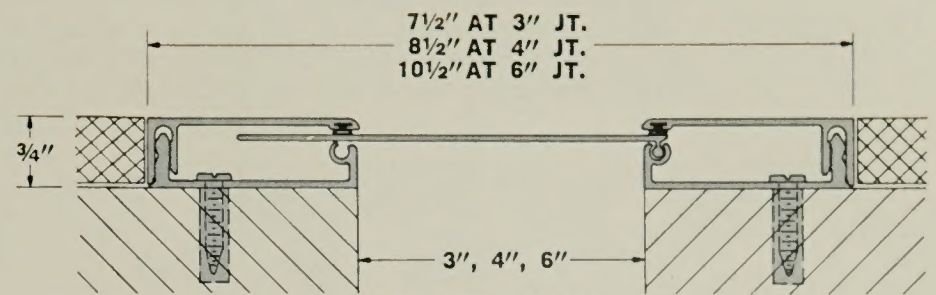


EX-L1 (1" JT.)
EX-L2 (1 1/2" & 2" JT.)

2" expansion



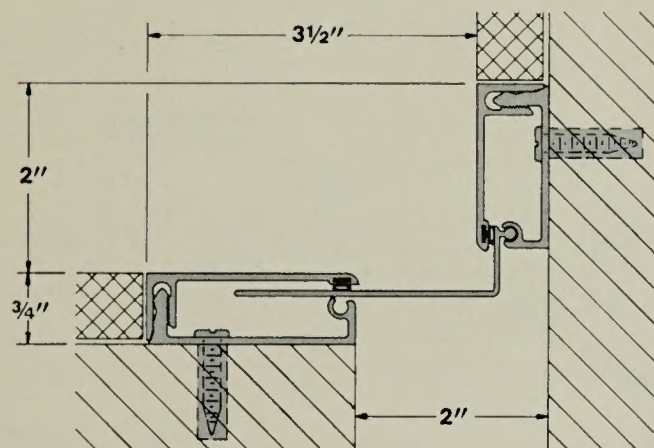
FX-K4S



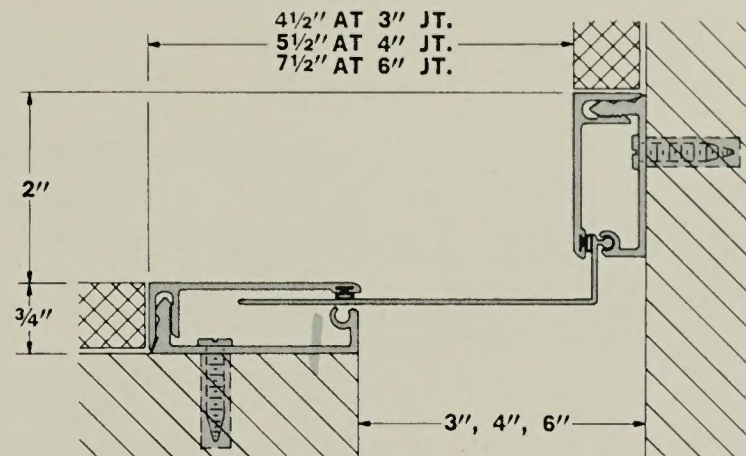
FX-K6S (3" JT.)

FX-K8S (4" JT.)

FX-K12S (6" JT.)



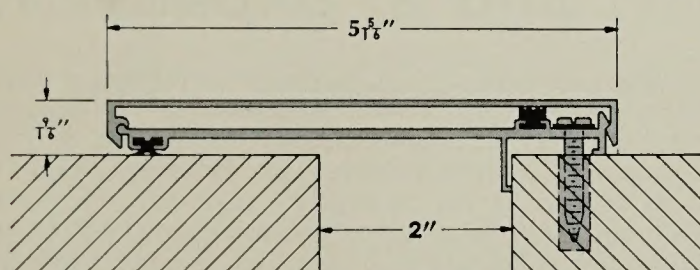
FX-L4S



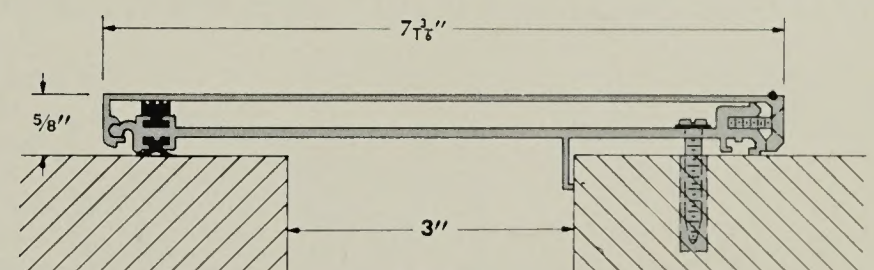
FX-L6S (3" JT.)

FX-L8S (4" JT.)

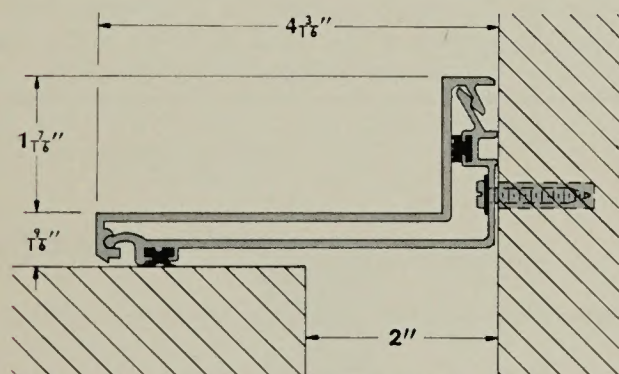
FX-L12S (6" JT.)



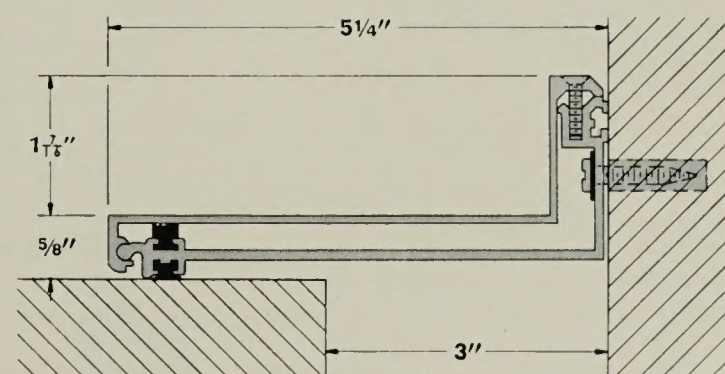
X-K4SM



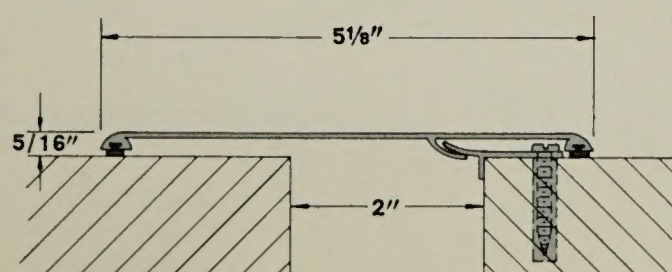
X-K6M



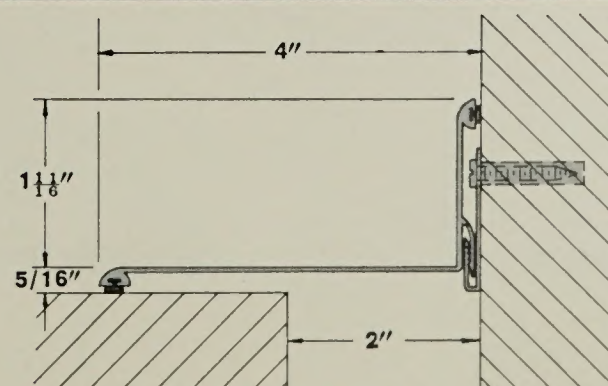
X-L4SM



X-L6M



EX-K4



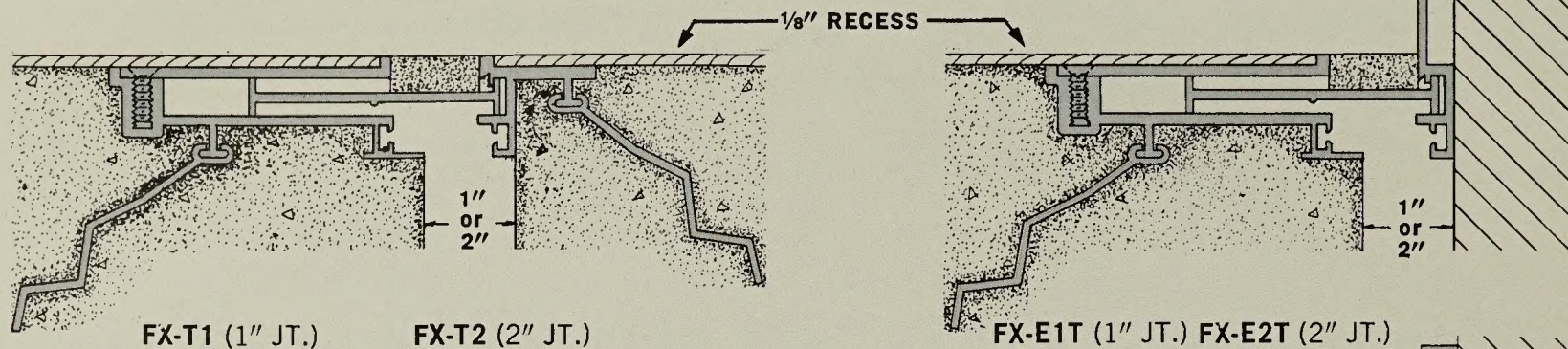
EX-L4



floor assemblies **Four-Way** movement

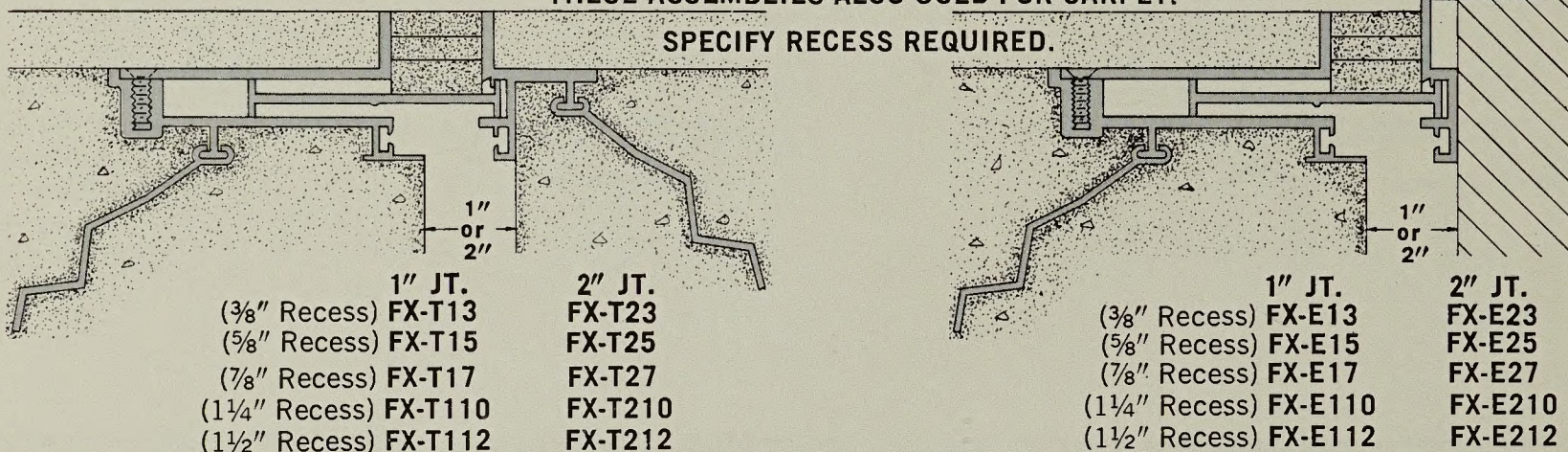
1" and 2" expansion

Assemblies illustrated have been designed with cover plates recessed to accommodate floor finishes ranging from $\frac{1}{8}$ " tile to $1\frac{1}{2}$ " terrazzo. Assembly cover plates may be readily modified to receive other thicknesses of floor finish material. Cork filler strip is standard. Vinyl filler is optional for $\frac{1}{8}$ " recess only.



THESE ASSEMBLIES ALSO USED FOR CARPET.

SPECIFY RECESS REQUIRED.



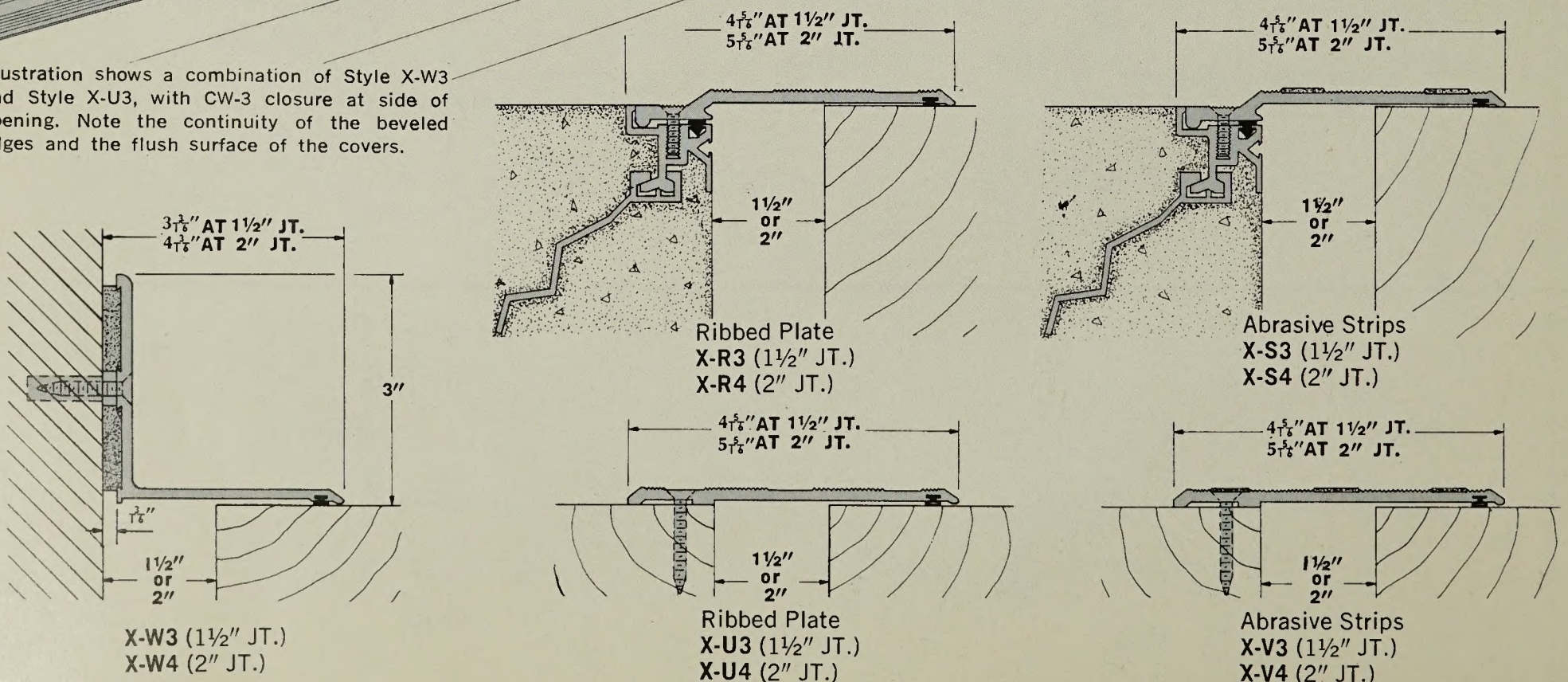
gymnasium floor assemblies for $1\frac{1}{2}$ " and 2" expansion

See Page 3 for more
concrete to wood floor assemblies.

GYM FLOOR ASSEMBLIES ARE 6063-T5 ALUMINUM WITH MILL FINISH

The design of Gym Floor Expansion Joint Covers requires cork spacers as shown to be placed at each anchor screw, thereby allowing $\frac{3}{16}$ " air space between the wall and cover. By properly placing the cork between the cover and wall, vertical movement in the floor will not allow the anchor to become loose since the cork will expand for upward movement of the floor. Since the cork is under slight pressure, the cover will also remain firm and tight if the floor should drop or move to a lower elevation. Vinyl inserts not only cushion covers against vibrations of the gym floors, thus preventing loosening of anchors, but also act as moisture seals and prevent the covers from marring the surface of the floors. At corners, the normal installation requires the covers to be mitered and welded on the back side.

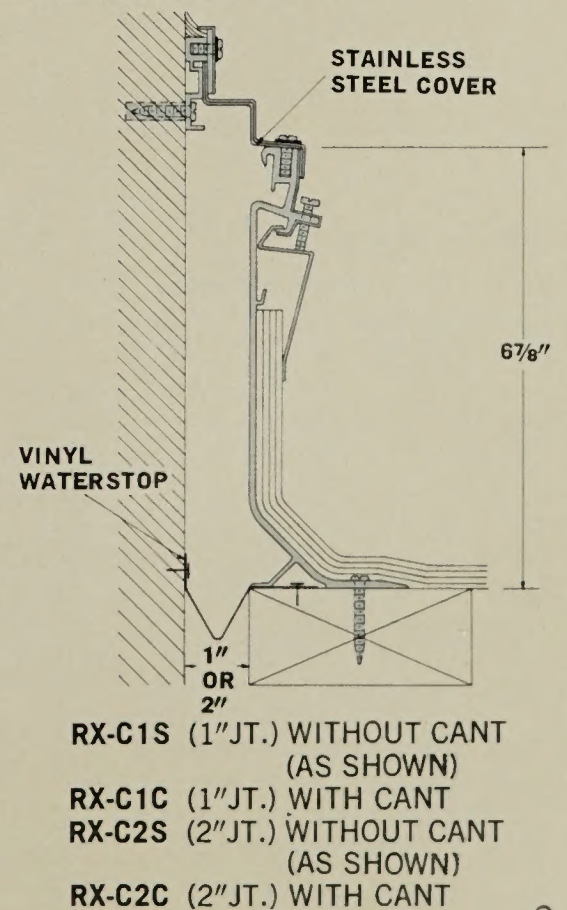
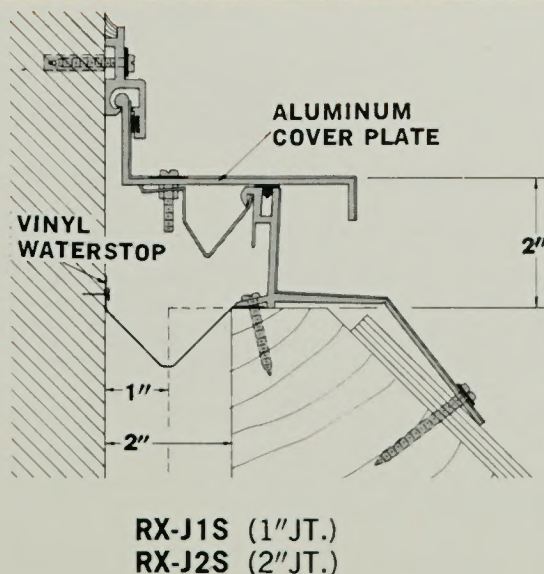
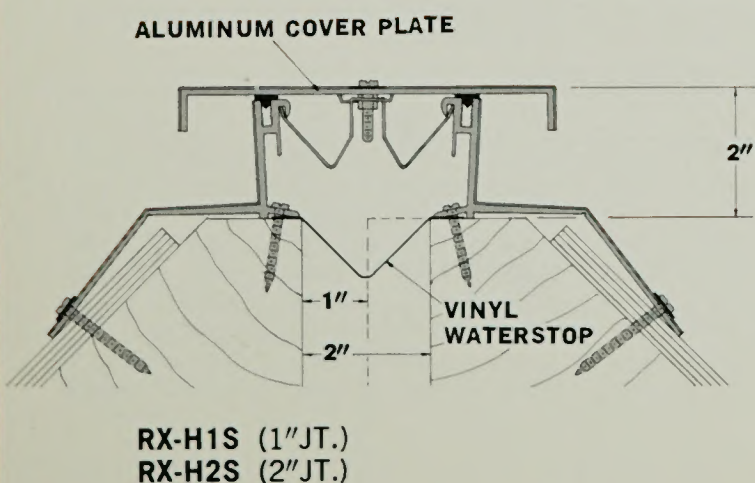
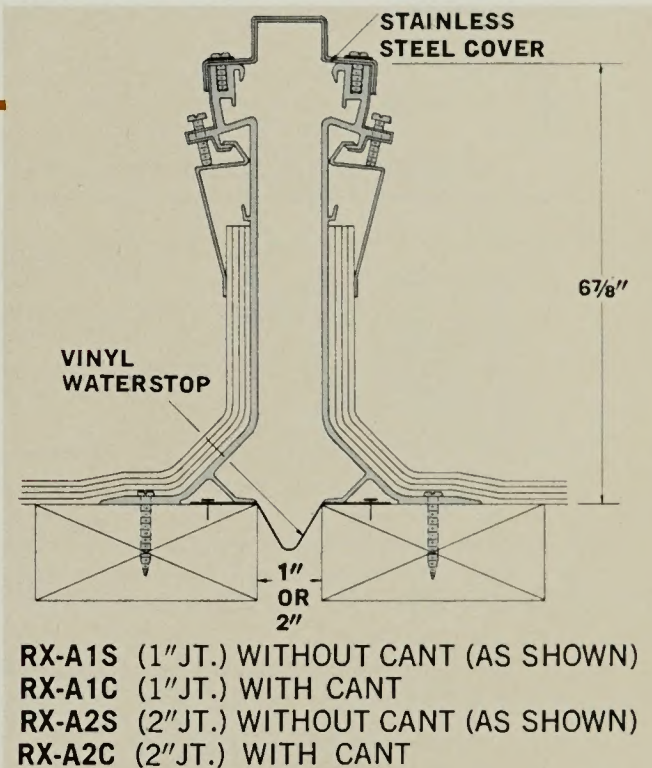
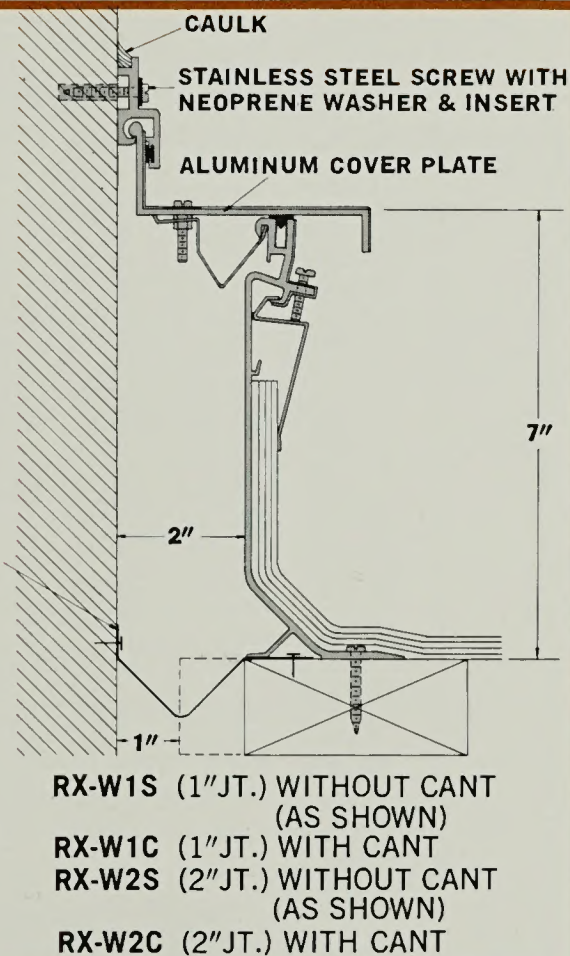
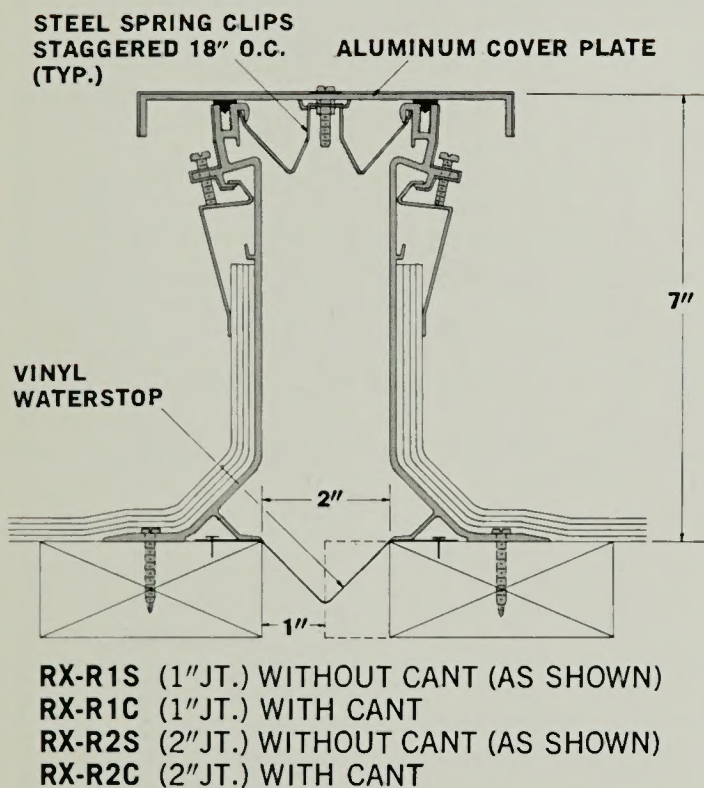
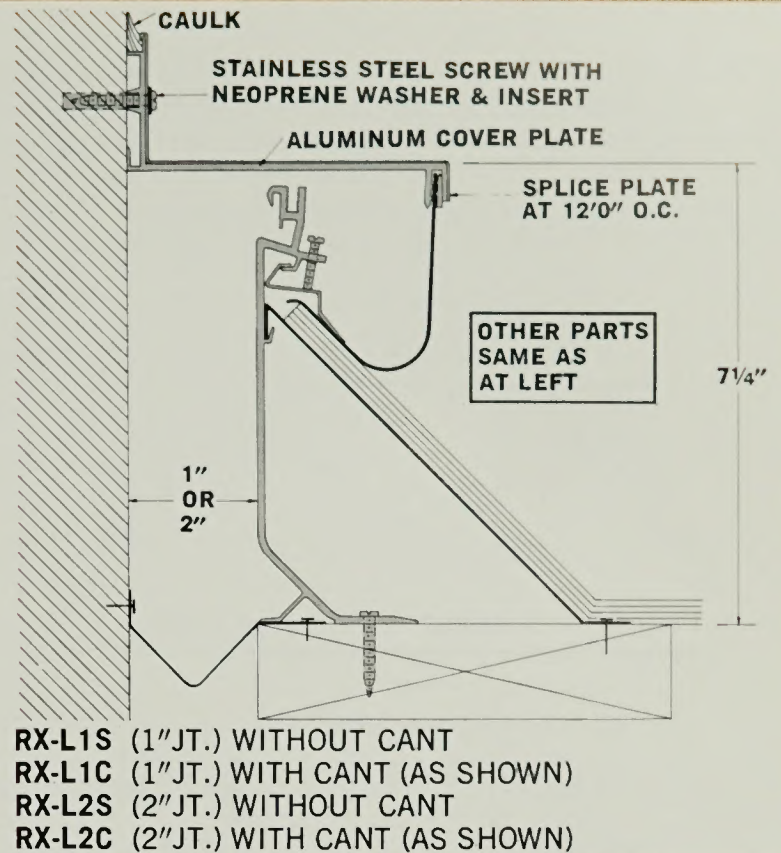
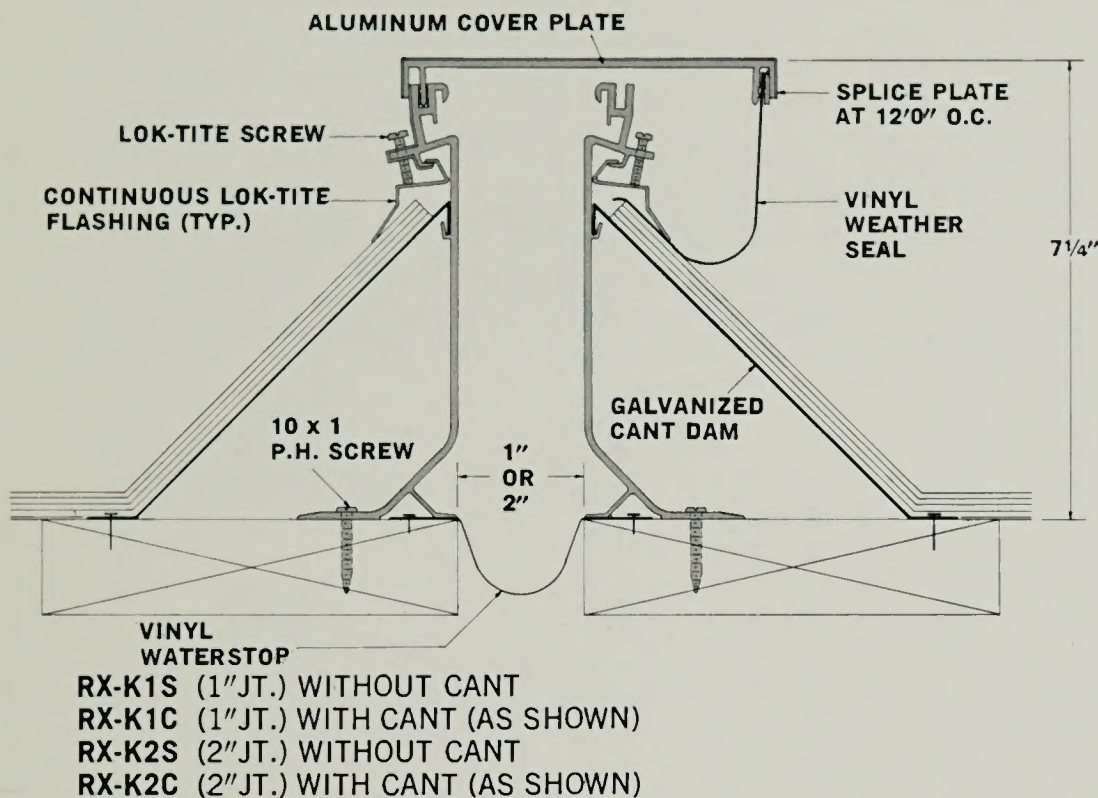
Illustration shows a combination of Style X-W3 and Style X-U3, with CW-3 closure at side of opening. Note the continuity of the beveled edges and the flush surface of the covers.



roof assemblies

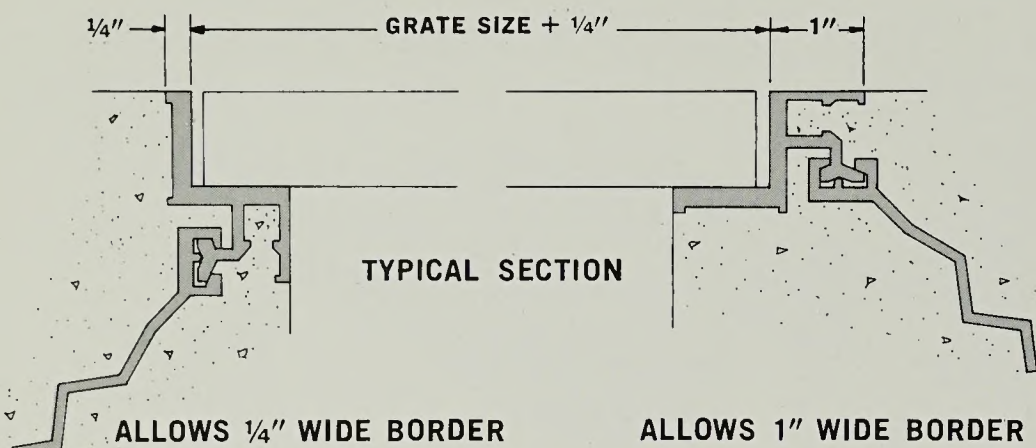
Four-Way movement

All Assemblies this page are carried in 12'-0" stock lengths, but can be cut to exact length required for job conditions. End closures also available if required



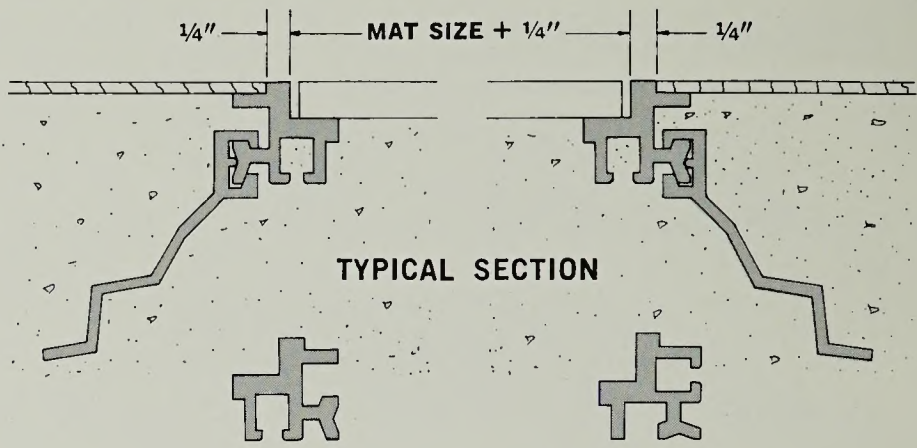
other products

GRATE FRAMES



GF-880 FOR 1" GRATE WITH 1" BEARING **GF-881**
GF-1080 FOR 1 1/4" GRATE WITH 1 1/4" BEARING **GF-1081**
GF-1280 FOR 1 1/2" GRATE WITH 1 1/2" BEARING **GF-1281**

MAT RECESS FRAMES

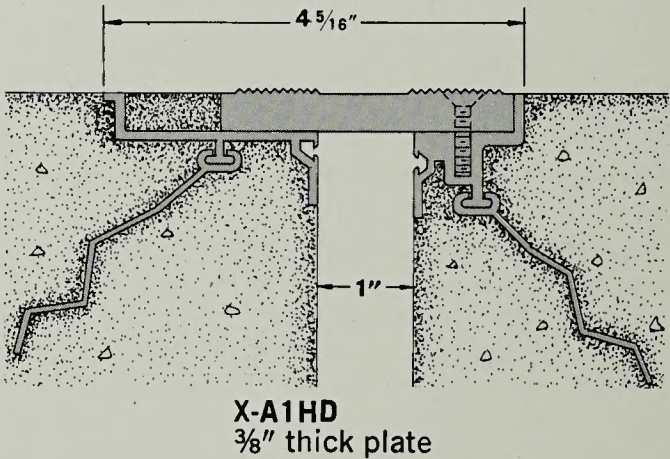
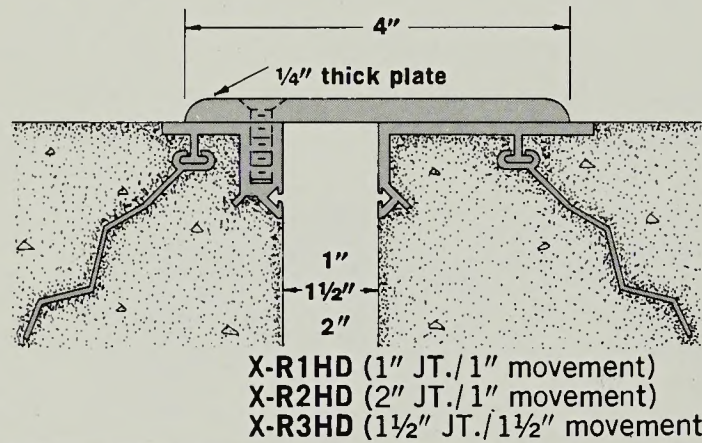


MF-386 for 3/8" mat
MF-587 for 7/16" mat
MF-488 for 1/2" mat
MF-5810 for 5/8" mat

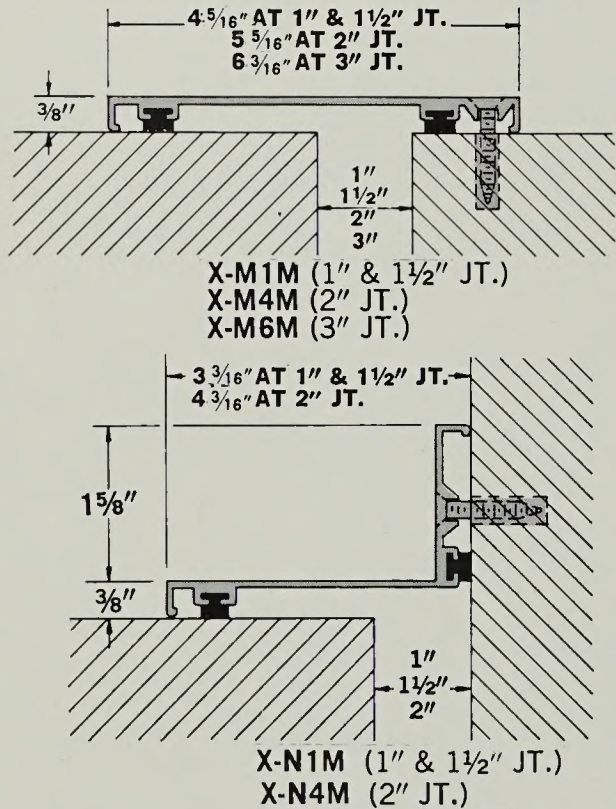
Order or specify by frame type and also grate or mat size. Example: Type GF-880 frame for 2'-0" x 6'-0" grate.

Grate Frames and Mat Recess Frames are shipped knocked down and are complete with M-55 anchors, shop mitered corners and corner key KY-1. Frames are fabricated to sizes required; however, fabricated pieces or stock lengths of 20'-0" can also be furnished. The SM-55 splice connector allows frames over 20'-0" long to be used if required.

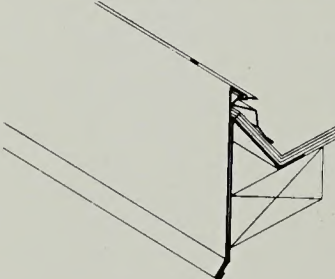
HEAVY DUTY COVERS



ECONO-COVERS



ALUMINUM FASCIA

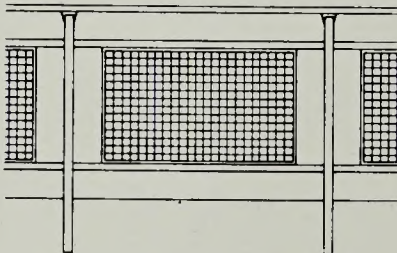


See Catalog 7.3/Mis.

U.S. Patent Nos. 3,270,474—
3,390,501—3,425,172—3,624,973
Other Patents Pending

We reserve the right
to revise or withdraw
any designs without notice.

ALUMINUM HANDRAIL



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Miscellaneous Manufacturing Corporation

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